Multicore Software Development Techniques

Description: This book provides a set of practical processes and techniques used for multicore software development. It is written with a focus on solving day to day problems using practical tips and tricks and industry case studies to reinforce the key concepts in multicore software development.

Coverage includes:
- The multicore landscape
- Principles of parallel computing
- Multicore SoC architectures
- Multicore programming models
- The Multicore development process
- Multicore programming with threads
- Concurrency abstraction layers
- Debugging Multicore Systems
- Practical techniques for getting started in multicore development
- Case Studies in Multicore Systems Development
- Sample code to reinforce many of the concepts discussed
- Presents the 'nuts and bolts' of programming a multicore system- Provides a short-format book on the practical processes and techniques used in multicore software development- Covers practical tips, tricks and industry case studies to enhance the learning process

Contents:
- Principles of parallel computing
- Parallelism in all of its forms
- Multicore system architectures
- Multicore Software Architectures
- Multicore software development process
- A case study on Multicore Development
- Multicore Virtualization
- Performance and Optimization of Multicore systems
- Sequential to parallel migration of software applications
- Concurrency abstraction layers
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